



# PUBLIC NOTICE

**File Number: NRS 14.173**

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Pursuant to Chapter 0400-40-07 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**APPLICANT:** Rick Deckbar – Partner  
Green Trails, LLC  
2925 Berry Hill Drive, Suite 200  
Nashville, TN 37204  
(615) 397- 4513

**LOCATION:** The Paddock – Carellton. North of the intersection of Long Hollow Pike and Big Station Camp Boulevard, Gallatin, Sumner County, TN  
Impact 1: Latitude: 36.38765 Longitude: -86.54383  
Impact 2: Latitude: 36.38762 Longitude: -86.54870  
Impact 3: Latitude: 36.38778 Longitude: -86.54889

**PROJECT DESCRIPTION:** The applicant proposes to construct three minor road crossings in Phase 2B of this residential subdivision – One 70 feet long by 12 feet wide by 4 feet high multi-plate arch crossing over Unnamed Tributary 1 to Station Camp Creek and two 60 feet long by 48 inch by 76 inch elliptical concrete pipe crossings over Unnamed Tributary 2 to Station Camp Creek. The total length of impacts for these three minor road crossings cumulatively exceed 200 LF as part of a common plan of development and therefore require an Individual Permit. Any additional similar proposed activities at this site will also require an Individual Permit as well as compensatory mitigation, preferably in system.

**DEGRADATION:** In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

**WATERSHED / WATERBODY DESCRIPTION:** The unnamed tributaries at this site flow into Station Camp Creek, which is a tributary to Old Hickory Reservoir. These unnamed tributaries originate in historically mixed agricultural and wooded hillsides. The segments flowing through the proposed development have been impacted by historic agricultural activities and by partially completed alterations authorized under a previous individual permit. The Old Hickory Reservoir watershed encompasses parts of 7 counties and drains 983 square miles. For more information on this watershed, please visit <http://www.state.tn.us/environment/water/watersheds/old-hickory-lake.shtml>

**Stream Name / ID #:** Unnamed Tributary 1 to Station Camp Creek (TN05130201046\_0999)

**Ecoregion:** Outer Nashville Basin (71h)

**Stream Dimension:** Channel bottom width: approximately 10 - 12 feet  
Chanel top width: approximately 10 – 12 feet  
Water depth: approximately 0.5 – 2.0 feet  
Bank height: approximately 2 - 4 feet

**Substrate:** Bedrock mixed with cobble and small gravel

Designated Use	Use Support	Causes
Fish and aquatic life	Not Assessed	
Recreation	Not Assessed	
Irrigation	Not Assessed	
Livestock watering & wildlife	Not Assessed	

**Assessment Date:** N/A

**Stream Name / ID #:** Unnamed Tributary 2 to Station Camp Creek (TN05130201046\_0999)

**Ecoregion:** Outer Nashville Basin (71h)

**Stream Dimension:** Channel bottom width: approximately 1 - 3 feet  
Chanel top width: approximately 1 – 3 feet  
Water depth: approximately 0.5 – 1.0 feet  
Bank height: approximately 1 - 3 feet

**Substrate:** Soil/silt mixed with cobble and small gravel

Designated Use	Use Support	Causes
Fish and aquatic life	Not Assessed	
Recreation	Not Assessed	
Irrigation	Not Assessed	
Livestock watering & wildlife	Not Assessed	

**Assessment Date:** N/A

**PERMIT COORDINATOR:** Mark Jordan

**FACTORS CONSIDERED:** In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

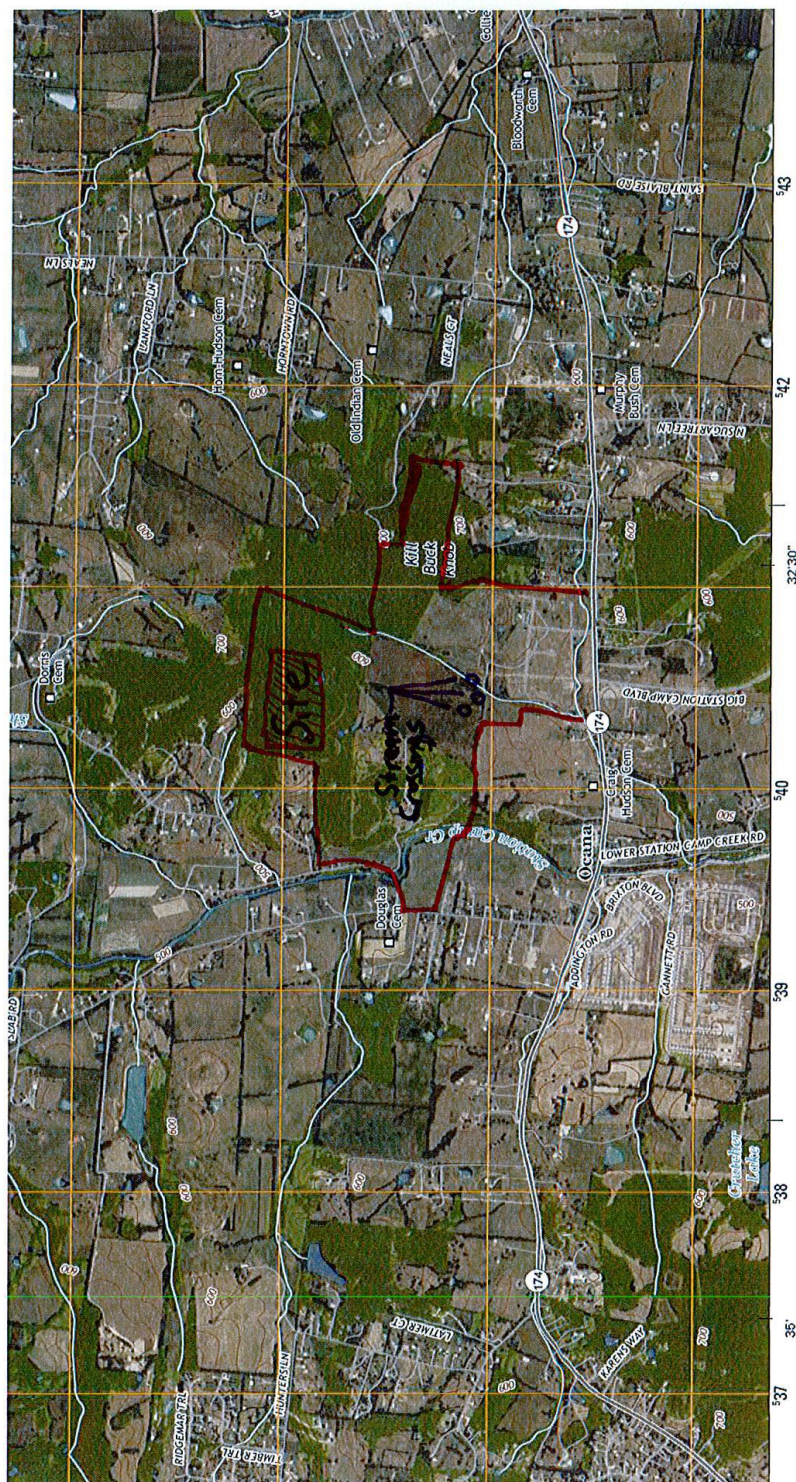
**COMMENTING:** Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

**PUBLIC HEARING:** Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

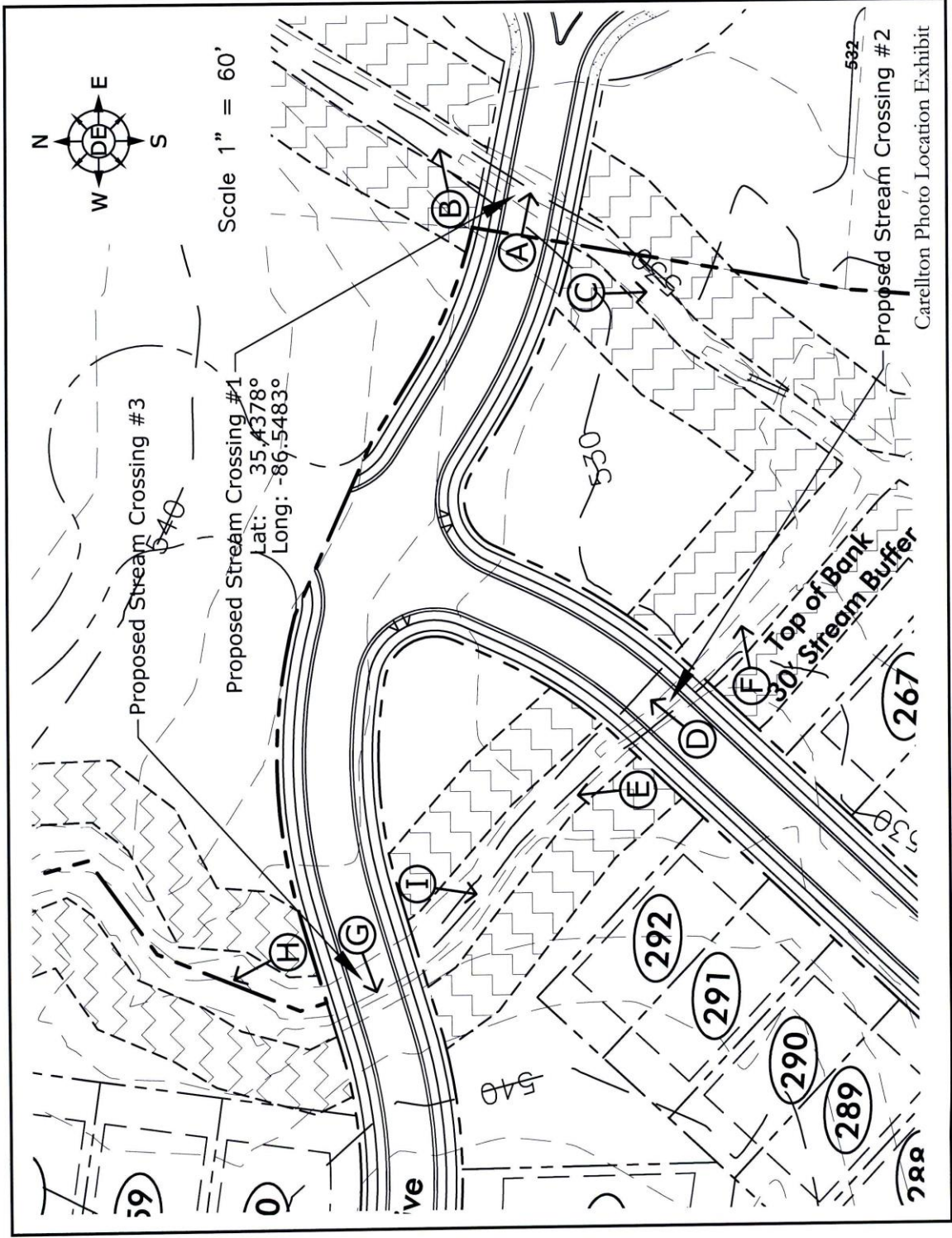
**APPEAL:** A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Tisha Calabrese Benton, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 11<sup>th</sup> floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

**FILE REVIEW:** The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation  
Division of Water Resources, Natural Resources Unit  
ATTN: Mark Jordan  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243







Carellton Photo Location Exhibit

## **Section 8: Project Description**

8.1 The proposed project consists of the development of 718 single-family and multi-family lots for a planned subdivision called Carellton. The subject crossing shall consist of public infrastructure necessary for the development of the residential lots. The public infrastructure associated with the crossing includes road, water, sewer, as well as any other necessary utilities such as phone, electric, cable, and gas. A storm pipe is also included to convey water to its natural course.

8.2 A USGS topographic map is attached with this submittal. The approximate location of the stream crossings have been identified on the USGS map.

8.3 Photographs of the stream at location of crossings.



Photo A





Photo B



Photo C



Photo D



Photo E





Photo F



Photo G





Photo H

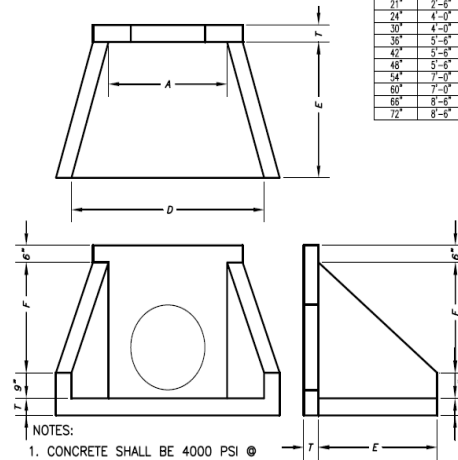


Photo I





TABLE OF DIMENSIONS					
SIZE	A	D	E	F	T(MIN)
15"	2'-6"	5'-0"	2'-6"	1'-9"	6"
18"	2'-6"	5'-0"	2'-6"	1'-9"	6"
21"	2'-6"	5'-0"	2'-6"	1'-9"	6"
24"	4'-0"	6'-6"	4'-0"	3'-3"	6"
30"	4'-0"	6'-6"	4'-0"	3'-3"	6"
35"	5'-6"	8'-0"	3'-6"	4'-5"	6"
42"	5'-6"	8'-0"	3'-6"	4'-5"	6"
48"	5'-6"	8'-0"	3'-6"	4'-5"	6"
54"	7'-0"	9'-0"	4'-6"	5'-9"	6"
60"	7'-0"	9'-0"	4'-6"	5'-9"	6"
66"	8'-6"	11'-0"	5'-6"	6'-11"	6"
72"	8'-6"	11'-0"	5'-6"	6'-11"	6"



NOTES:

1. CONCRETE SHALL BE 4000 PSI @ 28 DAYS REINFORCED WITH NO.4 BARS @ 10"O.C., EACH WAY WITH WINGS AND TOE SLAB DOWELED TO HEADWALL WITH NO.5 BARS.
2. 3/4" CHAMFER ON ALL EXPOSED EDGES.

PRECAST CONCRETE  
HEADWALL

57 pi

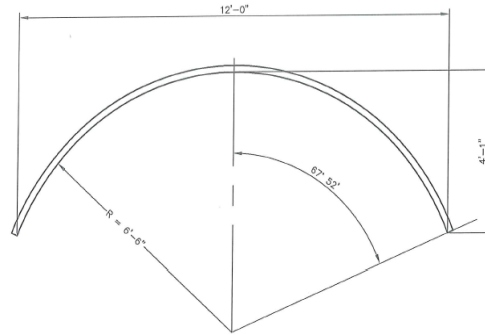


PLATE MAKE-UP: 2 @ 18pl, 1 @ 21pl

AREA= 35.4 SF

ALL DIMENSIONS ARE TO INSIDE CORRUGATION CREST, UNLESS OTHERWISE NOTED.  
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

**CONTECH**  
CONSTRUCTION PRODUCTS INC.  
9033 GUSTINE POINTE DRIVE, SUITE 400  
WEST CHESTER, OH 45386  
PH: 513.326.1122 FAX: 513.645.7309  
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### MULTI-PLATE ARCH

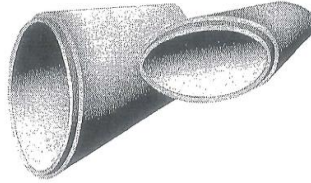
12'-0" SPAN X 4'-1" RISE  
DWG.# 1009377B  
R/S RATIO = .34

CONTECH ID# 0000

SCALE:	1"=2'
APPROVED BY:	NS
DATE:	10/16/04
DRAWN BY:	TS
CHECKED BY:	NS/NSM
SHEET:	1 of 1



## ELLIPTICAL CONCRETE PIPE



ASTM 507 -- REINFORCED CONCRETE ELLIPTICAL CULVERT, STORM DRAIN AND SEWER PIPE					
EQUIVALENT ROUND SIZE (INCHES)	HEIGHT INSIDE (INCHES)	WIDTH INSIDE (INCHES)	WALL THICKNESS (INCHES)	WATERWAY AREA (SQ. FT.)	WEIGHT POUNDS PER FOOT
18	14	23	2 <sup>3</sup> / <sub>4</sub>	1.8	211
24	19	30	3 <sup>1</sup> / <sub>4</sub>	3.3	319
30	24	38	3 <sup>3</sup> / <sub>4</sub>	5.1	452
36	29	45	4 <sup>1</sup> / <sub>2</sub>	7.4	625
42	34	53	5	10.2	853
48	38	60	5 <sup>1</sup> / <sub>2</sub>	12.9	1,061
54	43	68	6	16.6	1,235
60	48	76	6 <sup>1</sup> / <sub>2</sub>	20.5	1,475
72	58	91	7 <sup>1</sup> / <sub>2</sub>	29.5	2,040
84	68	106	8 <sup>1</sup> / <sub>2</sub>	40.1	2,680

Horizontal elliptical concrete pipe offers the hydraulic advantage of greater capacity for the same depth of flow than most other structures of equivalent water way area.

Elliptical concrete pipe (C-507) carries approximately 25% more water than concrete arch pipe (C-506) due to the greater water way area and hydraulic radius. Elliptical pipe has a slightly greater capacity than round pipe.

The term "round equivalent" is a misnomer, and elliptical and arch pipe should not be considered equal alternates. The designer may refer to the "concrete pipe design manual" for flow coefficient values.